

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Original) Process for the production of monolithic porous mouldings which completely fill their gelling mould, characterised by the following process steps:
  - a) provision of a gelling mould;
  - b) activation of the gelling mould by surface etching, increasing the surface area and/or chemical modification;
  - c) filling of the gelling mould with monomer sol;
  - d) polymerisation of the monomer sol and ageing of the resultant gel for the formation of pores.
2. (Original) Process according to Claim 1, characterised in that a gelling mould made from glass, glass-coated stainless steel or fused silica is provided in step a).
3. (Currently Amended) Process according to Claim 1 ~~or 2~~, characterised in that the activation in step b) is carried out by increasing the inside surface area of the gelling mould by treating the inside surface with alkoxysilanes and/or organo-alkoxysilanes or slurries of particles.
4. (Currently Amended) Process according to claim 1 ~~one or more of Claims 1 to 3~~, characterised in that the activation in step b) is carried out by chemical modification of the inside surface of the gelling mould by treating the surface with bifunctional reagents.
5. (Currently Amended) Process according to claim 1 ~~one or more of Claims 1 to 4~~, characterised in that a sol-gel process is used for the production of the monolithic porous mouldings.

6. (Currently Amended) Process according to claim 1 ~~one or more of Claims 1 to 5~~, characterised in that a monomer sol which exhibits low shrinkage rates through the addition of particles, fibres and/or use of organoalkoxysilanes is used in step c).

7. (Currently Amended) Monolithic porous mouldings which have been polymerised into their gelling mould, obtainable by the process corresponding to claim 1 ~~one or more of Claims 1 to 6~~.

8. (Original) Use of the mouldings according to Claim 7 for the chromatographic separation of at least two substances.